

AUTHOR INDEX
of
Mathematical Reviews
1973-79

Volumes 45-58

A-C

American Mathematical Society
Providence, Rhode Island

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73-79
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MATH.

AUTHOR INDEX
of
Mathematical Reviews
1973-79
Volumes 45-58

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PREFACE

These indexes list all reviews published in Mathematical Reviews in 1973-79 (Vols.45-58) and include about 3,000 items within the scope of MR but not reviewed. The author index is similar to the three previous cumulative author indexes covering 1940-59 (Vols.1-20), 1960-64 (Vols. 21-28) and 1965-72 (Vols. 29-44). The subject index is in order corresponding to the AMS (MOS) 1970 subject classification scheme except for Sections 69 through 86. A complete list of the subject classification used is printed at the end of the subject index.

A star (★) preceding a title indicates a book or other non-periodical, reviewed as a whole.

1. ALPHABETICAL ORDER

Reviewed items are listed alphabetically by author; items having several authors are listed in full under each author (this was not done in the 1940-59 and 1960-64 cumulative indexes). Surnames consisting of more than one part (e.g., de Branges, van der Corput) are listed under the first capital letter. Collections, proceedings and other similar publications that may have editors but do not have specific authors are given alphabetically by title in a separate list (called the Key Index) following the list of authors. Individual articles in a collection are listed independently, under the names of the authors, if they were reviewed individually.

When two authors have the same name, such as Ivanov, A. V., their papers may have been listed in the index in a common entry.

2. CROSS-REFERENCES

There are four kinds of cross-references in this index.

(a) *Name variations.*

An author's primary name is simply the one name variation which MR has chosen on the basis of frequency and currency of usage. We will usually list all items by a given author under that author's primary name and cross-references to the primary form are given from sufficiently distinct alternative forms of the author's name that have been used in items reviewed.

(b) *Authors in other capacities.*

In the author index, the names of persons associated with an item in a capacity other than that of author (e.g., editor, translator, subject of a biography, etc.) are also listed. In the subject index, such names are given in parentheses in the positions that they would occupy had they been authors. In both indexes these items occur only as cross-references to complete listings.

(c) *Key entries.*

Certain collections that are listed under their titles, as described in Section 1 above, are also listed under other headings. For example, the publication entitled *Proceedings of the Symposium on Theory and Applications of Generalized Inverses of Matrices* is listed under the full title and also under the secondary headings 'Generalized inverses of matrices' and 'Symposium: Theory and Applications of Generalized Inverses of Matrices' and, for more recent entries, under the place and date of the meeting. These secondary headings have cross-references to the title of the entry where the full listing is given. There are also key listing cross-references to authored papers which contain extensive bibliographies or are obituaries. Where a key heading represents both the title of a work and a secondary key for another work, the full listings are first followed by the cross-references to full listings.

3. ARRANGEMENT OF ENTRY

The entries under a given heading (i.e., the primary name of an author, or a title) are listed in order of nominal publication dates. For this purpose co-authored items are treated on the same basis as those written by the author alone.

The arrangement of each title entry is that of the heading of the original review in MR. Titles in English, French, German and Italian are given as they appeared in the original, with no embellishments except for the mention of summaries in languages other than that of the item in question and, occasionally, of items such as discussion, comments, etc. Article titles in languages other than those mentioned are given in English translation (with the language of the original following in parentheses and accompanied by the mention of summaries in other languages). Book and monograph titles in languages other than those mentioned are given in the original language, the title being followed by the language of the original, in parentheses, and this being followed by an English translation of the title, in brackets.

The general form for title entries is as follows:

Books, Monographs: Title. (Language of original {if necessary}) [English translation of the title {if necessary}] Miscellaneous information {edition, editors, translators, series, etc.}. Publisher, city, date. Pagination. (Reviewer's name) Review number.

Journal article: Title of article. (Language of original {if necessary}). Summaries in languages other than the original {if necessary}) Journal abbreviation {including series number if necessary} volume number (volume number in first series if given) (nominal date), issue number {if necessary}, first page-last page (imprint date). (Reviewer's name) Review number.

4. TRANSLITERATION

The transliteration of names and titles in Russian follows the scheme that has been used by Mathematical Reviews since 1962, and appropriate variants are used for Bulgarian, Macedonian, Serbian and Ukrainian.

5. NAMES OF CHINESE AUTHORS

The name of a Chinese author is placed in the index as though it were in Western form. For example, Hua Luo-geng will be listed as Hua, Luo Geng, as though the author's name were L. G. Hua (in western form).

6. CONCLUSION

In an undertaking of this size some errors are inevitable, despite elaborate precautions and checks. The editors of Mathematical Reviews would be very glad to have their attention drawn to errors in this index and also in the earlier cumulative indexes.

Ann Arbor, Michigan
May 1981

J. L. Selfridge
Executive Editor

TRANSLITERATION OF CYRILLIC

Russian Letter Cap. Ital.	Mathematical Reviews; Zentralblatt für Mathematik	Bulletin Signalétique	Applied Mechanics Reviews	Science Abstracts	U.S. Library of Congress	Amer. Slavic & E. European Review	Journal of Symbolic Logic
А а	a	a	a	a	a	a	a
Б б	b	b	b	b	b	b	b
В в	v	v	v	v	v	v	v
Г г	g	g	g	g	g	g	g
Д д	d	d	d	d	d	d	d
Е е	e	e	e	e	e	e	é
Ё ё	e	ē	e	ē	ē	ē	ē
Ж ж	ž	zh	zh	zh	zh	ž	ž
З з	z	z	z	z	z	z	z
И и	i	i	i	i	i	i	i
Й й	ī	j	i	ī	ī	j	j
К к	k	k	k	k	k	k	k
Л л	l	l	l	l	l	l	l
М м	m	m	m	m	m	m	m
Н н	n	n	n	n	n	n	n
О о	o	o	o	o	o	o	o
П п	p	p	p	p	p	p	p
Р р	r	r	r	r	r	r	r
С с	s	s	s	s	s	s	s
Т т	t	t	t	t	t	t	t
У у	u	u	u	u	u	u	u
Ф ф	f	f	f	f	f	f	f
Х х	h	kh	kh	kh	kh	kh	h
Ц ц	c	c	ts	ts	ts	c	c
Ч ч	č	ch	ch	ch	ch	č	č
Ш ш	š	sh	sh	sh	sh	š	š
Щ щ	šč	shch	shch	shch	shch	šč	šč
Ъ ъ	"			'	"	'	
Ы ы	y	y	y	ȳ	y	y	y
Ь ь	'	'		'	'	'	'
Э э	è	e	e	é	é	è	e
Ю ю	ju	ju	yu	yu	iū	ju	ú
Я я	ja	ja	ya	ya	ia	ja	á

Other *Mathematical Reviews* conventions are as follows:

The Ukrainian І, і are transliterated Ī, ī, respectively.

The Ukrainian І̇, і̇ are reproduced without change.

The Ukrainian Є, є are transliterated Ē, ē.

The Serbian Ъ, ђ are transliterated Đ, đ, respectively.

The Serbian Ь, ь are transliterated Ć, ć; the Serbian Џ, џ are transliterated Dž, dž.

Mathematical Reviews

CUMULATIVE AUTHOR INDEX 1973-79

- Aaberge, Rolf** (with Doksum, Kjell A.; Fenstad, Grete) Plots and tests for symmetry. *Biometrika* **64** (1977), no. 3, 473-487. (C. R. Heathcote) **58** #3181 62G10
- Aaberge, Terje** On the foundations of relativity. *Helv. Phys. Acta* **48** (1975), no. 2, 163-171. (Marcos Rosenbaum) **52** #16484 83.53
- Hamiltonian dynamics for Einstein relativistic particles: the classical particle and the quantal particles of spin 0 and 1/2. *Helv. Phys. Acta* **48** (1975), no. 2, 173-190. (Marcos Rosenbaum) **52** #7424 83.22
- On the description of free relativistic particles. *Helv. Phys. Acta* **50** (1977), no. 3, 331-336. (M. Seetharaman) **58** #14476 81.22
- On the description of classical Einstein relativistic two-particle systems. *Helv. Phys. Acta* **50** (1977), no. 6, 917-929. (Author's summary) **58** #14871 83.22
- Systems of two quantal Einstein relativistic particles. *Helv. Phys. Acta* **51** (1978), no. 2, 240-251. (Author's summary) **58** #14707 81.53
- Aaboe, Asger** Lunar and solar velocities and the length of lunation intervals in Babylonian astronomy. *Mat.-Fys. Medd. Danske Vid. Selsk.* **38**, no. 6, 28 pp. (1971). (See Zbl **217**, 3) 01A15
- Remarks on the theoretical treatment of eclipses in antiquity. *J. Hist. Astronom.* **3** (1972), no. 2, 105-118. (J. L. Berggren) **58** #15799 01A15 (01A25, 70.01)
- (with Henderson, Janice A.) The Babylonian theory of lunar latitude and eclipses according to system A. *Arch. Internat. Histoire Sci.* **25** (1975), no. 97, 181-222. (Editors) **58** #26692 01A15
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- Aalen, Odd O.** Nonparametric inference in connection with multiple decrement models. *Scand. J. Statist.* **3** (1976), no. 1, 15-27. (B. Raja Rao) **53** #4360 62G10 (62P05)
- Weak convergence of stochastic integrals related to counting processes. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* **38** (1977), no. 4, 261-277. (Ju. M. Kabanov) **56** #6858 60H05 (60G55)
- Nonparametric estimation of partial transition probabilities in multiple decrement models. *Ann. Statist.* **6** (1978), no. 3, 534-545. (G. Roussas) **57** #17987 62M05 (62G05, 62P05)
- (with Hoem, Jan M.) Actuarial values of payment streams. *Scand. Actuar. J.* **1978**, no. 1, 38-47. (Hans Bühlmann) **58** #13590 62P05
- Aalto, S. K.** The representation of functionals on subspaces by functionals having certain support sets. *SIAM J. Numer. Anal.* **9** (1972), 35-39. (Hansgeorg Jeggli) **46** #7886 46E99 (65J05)
- Aalto, Sergei** (with Schuegraf, Ernst) Determination of the number of unambiguous bit matrices. *Internat. J. Comput. Information Sci.* **6** (1977), no. 3, 223-235. (Authors' summary) **58** #32151 68A99 (68A45, 68A50)
- Aaltonen, Matti J.** (with Lindström, Kauko) The nonexistence of nearly perfect nonbinary codes for $1 < e < 10$. *Ann. Univ. Turku. Ser. A I No. 172* (1976), 19 pp. (R. J. McEliece) **54** #9836 94A10
- An asymptotic Hamming bound on the feedback decoding minimum distance of linear tree codes. *IEEE Trans. Information Theory* **IT-23** (1977), no. 3, 396-397. (Jack K. Wolf) **57** #9272 94A10
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- Aanderaa, Stål O.** On the decision problem for formulas in which all disjunctions are binary. *Proceedings of the Second Scandinavian Logic Symposium (Oslo, 1970)*, pp. 1-18. *Studies in Logic and the Foundations of Mathematics*, Vol. 63, North-Holland, Amsterdam, 1971. (Walter Oberschelp) **50** #1864 02G05
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- A proof of Higman's embedding theorem using Britton extensions of groups. *Word problems: decision problems and the Burnside problem in group theory (Conf. on Decision Problems in Group Theory, Univ. California, Irvine, Calif., 1969; dedicated to Hanna Neumann)*, pp. 1-18. *Studies in Logic and the Foundations of Mathematics*, Vol. 71, North-Holland, Amsterdam, 1973. (Paul E. Schupp) **54** #412 02F10 (02F47)
- (with Lewis, Harry R.) Prefix classes of Krom formulas. *J. Symbolic Logic* **38** (1973), 628-642. (M. R. Krom) **49** #2326 02G05
- On k -tape versus $(k-1)$ -tape real time computation. *Complexity of computation (Proc. Sympos., New York, 1973)*, pp. 75-96. *SIAM-AMS Proc.*, Vol. VII, Amer. Math. Soc., Providence, R.I., 1974. (H. J. Schneider (Zbl **316** #68029)) **56** #10146 68A25 (68A20, 02F15)
- Inductive definitions and their closure ordinals. *Generalized recursion theory (Proc. Sympos., Univ. Oslo, Oslo, 1972)*, pp. 207-220. *Studies in Logic and the Foundations of Mathematics*, Vol. 79, North-Holland, Amsterdam, 1974. (Douglas Cenzer) **52** #13388 02K30 (02F35)
- (with Goldfarb, Warren D.) The finite controllability of the Maslov case. *J. Symbolic Logic* **39** (1974), 509-518. (M. R. Krom) **51** #113 02G05
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- See also Cybernetics collection, **47** #6379
- Aarde, I. M. R.** The effect of linkage on the mean value of inbreds derived from a random mating population. *Genetics* **78** (1974), no. 4, 1245-1249. (Susan Wilson) **52** #16702 92A10 (92A15)
- The covariance of relatives derived from a random mating population. *Theoret. Population Biology* **8** (1975), no. 2, 166-183. (Author's summary) **58** #33107 92A10
- Aarna, O.** ★ Теория автоматического управления. I. (Russian) [Automated control theory. I] *Tallin. Politehn. Inst., Tallin*, 1975. 114 pp. (Editors) **54** #14814 93-01
- Aarnes, Johan F.** On the Mackey-topology for a von Neumann algebra. *Math. Scand.* **22** (1968), 87-107 (1969). (M. Takesaki) **56** #12904 46L10
- A large bi-invariant nuclear function space on a locally compact group. *Math. Scand.* **29** (1971), 281-297 (1972). (J. R. Holub) **46** #9720 46E99 (43A70, 46F05)
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- Aaronson, Jon** Rational ergodicity and a metric invariant for Markov shifts. *Israel J. Math.* **27** (1977), no. 2, 93-123. (Author's introduction) **58** #28424 28A65
- On the ergodic theory of non-integrable functions and infinite measure spaces. *Israel J. Math.* **27** (1977), no. 2, 163-173. (Paul C. Shields) **56** #3245 28A65
- Aarstad, Jostein** On the optimal development of knowledge-based industries and the educational sector in a small open economy. *Internat. Econom. Rev.* **19** (1978), no. 2, 379-394. (Edwin H. Neave) **58** #20290 90A15 (49C05)
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- Complementary inductive invariants and dimension. *General topology and its relations to modern analysis and algebra, III (Proc. Third Prague Topological Sympos., 1971)*, pp. 17-18. *Academia, Prague*, 1972. (J. E. Vaughan) **50** #11194 54F45
- (with Nishiura, Togo) The Eilenberg-Borsuk duality theorem. *Nederl. Akad. Wetensch. Proc. Ser. A 75 = Indag. Math.* **34** (1972), 68-72. (V. J. Mancuso) **46** #848 54C20 (54F45)
- Dimension modulo a class of spaces. *Nieuw Arch. Wisk.* (3) **20** (1972), 191-215. (D. Adnădevič) **49** #1491 54F45
- (with Nishiura, Togo) Covering dimension modulo a class of spaces. *Fund. Math.* **78** (1973), no. 1, 75-97. (J. E. Vaughan) **48** #1188 54F45
- (with Lutzer, David J.) Pseudo-completeness and the product of Baire spaces. *Pacific J. Math.* **48** (1973), 1-10. (Robert A. McCoy) **48** #5009 54D99
- (with Lutzer, David J.) The product of totally nonmeagre spaces. *Proc. Amer. Math. Soc.* **38** (1973), 198-200. (M. G. Murdeshwar) **46** #8167 54C50
- (with Nishiura, Togo) Kernels in dimension theory. *Trans. Amer. Math. Soc.* **178** (1973), 227-240. (Louis F. McAuley) **47** #9570 54F45
- The product of Baire spaces. *Topological structures (Proc. Sympos. in honour of Johannes de Groot (1914-1972), Amsterdam, 1973)*, pp. 48-54. *Math. Centre Tracts*, No. 52, Math. Centrum, Amsterdam, 1974. (From the author's introduction) **50** #3199 54E99
- (with Lutzer, David J.) Completeness properties designed for recognizing Baire spaces. *Dissertationes Math. (Rozprawy Mat.)* **116** (1974), 48 pp. (George M. Reed) **52** #1642 54E99 (54D30, 54E30)
- A new dimension function. *Proc. Amer. Math. Soc.* **50** (1975), 419-425. (K. Nagami) **51** #6757 54F45
- (with Sleutelsberg, L.) Monotone functions in stability theory. *Delft Progress Rep.* **2** (1976/77), no. 1, 21-22. (R. F. Datko) **56** #6034 34D99
- (with Lutzer, David J.) On constructing bases in certain complete spaces. *Nederl. Akad. Wetensch. Proc. Ser. A 79 = Indag. Math.* **38** (1976), no. 3, 185-188. (Anthony D'Aristotle) **54** #6088 54D30 (54E30)
- (with Lowen-Colebunders, Eva) On an example of Mary Ellen (Estill) Rudin. *General topology and its relations to modern analysis and algebra, IV (Proc. Fourth Prague Topological Sympos., Prague, 1976)*, Part B, pp. 18-20. *Soc. Czechoslovak Mathematicians and Physicists, Prague*, 1977. (K. Nagami) **57** #1437 54E30
- Aase, Knut K.** A note on a singular diffusion equation in population genetics. *J. Appl. Probability* **13** (1976), no. 1, 1-8. (Edward Pollak) **54** #14129 60J70 (92A10)
- A conditional expectation formula for diffusion processes. *J. Appl. Probability* **14** (1977), no. 3, 626-629. (Author's summary) **58** #24577 60J60 (60J70, 92A10)
- Conditioned moments of time to fixation. *J. Math. Biol.* **4** (1977), no. 4, 323-326. (Kuang-Ho Chen) **58** #15294 92A10 (60J60)
- Aasnaes, Hans Bent** (with Kailath, Thomas) An innovations approach to least-squares estimation. VII. Some applications of vector autoregressive-moving average models. *IEEE Trans. Automatic Control* **AC-18** (1973), no. 6, 601-607. (Authors' summary) **55** #14369 (E **58** #33420) 93E10
- (with Kailath, Thomas) Initial-condition robustness of linear least squares filtering algorithms. *IEEE Trans. Automatic Control* **AC-19** (1974), 393-397. (A. K. Mahalanabis) **57** #9236 93E10
- See also Gupta, Narendra K.; et al., **58** #33420
- Aatre, V. K.** (with Bapewara Rao, V. V.; Jyothirao, Patta A. D.) A note on positive real functions. *Proceedings of the Eighteenth Midwest Symposium on Circuits and Systems (Concordia Univ., Montreal, Que., 1975)*, pp. 252-253. *Western Periodicals, North Hollywood, Calif.*, 1975. (P. R. Bryant) **55** #7591 94A20
- (with Sarkar, S. K.; Hastings-James, R.) Observers for systems with extended equations of state. *Matrix Tensor Quart.* **26** (1975/76), no. 3, 106-109. (Zbl **332** #93012) **58** #4492 93B05
- (with Bapewara Rao, V. V.) An algorithm for the inversion of continued fractions.

- Proc. IEEE* **63** (1975), no. 4, 720-721. (From the authors' introduction) **56** #17017 65D99
- (with Bapswara Rao, V. V.) A note on lossy distributions tree networks. *IEEE Trans. Circuits and Systems* **CAS-23** (1976), no. 5, 322-323. (Fan R. K. Chung) **57** #2751 94A20
- Abad, Manuel** (with Monteiro, Luiz) Free symmetric Boolean algebras. *Rev. Un. Mat. Argentina* **27**, no. 4, 207-215 (1976). (R. Beazer) **58** #422 06A40
- Abad, Prakash** (with Sweeney, Dennis J.) An iterative algorithm for optimal control of a system with multiple criteria. *Internat. J. Systems Sci.* **8** (1977), no. 2, 221-229. (J. Cullum) **56** #3722 49D99 (65K05)
- Abadie, Jean** Programmation mathématique. *Actes du Cinquième Congrès de l'AFIRO* (Lille, 1966), pp. 44-67. *Assoc. Française Informat. Recherches Opérationnelles [AFIRO]*, Paris, 1966. (Author's introduction) **45** #6410 90C05
- Application of the GRG algorithm to optimal control problems. *Integer and nonlinear programming*, pp. 191-211. North-Holland, Amsterdam, 1970. (Editors) **55** #9993 90C30 (93C55)
- (with Gurevich, Yuri) Numerical experiments with the GRG method. *Integer and nonlinear programming*, pp. 529-536. North-Holland, Amsterdam, 1970. (Editors) **55** #14210 90C30
- (with Sakarovich, M.) Two methods of decomposition for linear programming. *Proceedings of the Princeton Symposium on Mathematical Programming* (Princeton Univ., 1967), pp. 1-23. Princeton Univ. Press, Princeton, N.J., 1970. (R. F. Albrecht) **50** #6476 90C05
- Optimization problems with coupled blocks. (Russian and French summaries) *Econom. Comp. Econom. Cybernet. Stud. Res.* **1970**, no. 4, 5-26. (Floyd J. Gould) **45** #9691 90C30
- Une méthode de résolution des programmes non-linéaire partiellement discrets sans hypothèse de convexité. *Rev. Française Informat. Recherche Opérationnelle* **5** (1971), Sér. V-1, 23-38. (R. W. Cottle) **47** #3011 90C20
- Simplex-like methods for non-linear programming. Notes by P. Dolci. *Minimization algorithms, mathematical theories and computer results* (Proc. Sem., Math. Inst., Univ. Cagliari, Cagliari, 1971), pp. 41-60. Academic Press, New York, 1972. (Jürgen Guddat) **51** #14981 90C30
- See also *Integer and nonlinear programming*, **53** #12564
- Abadiev, H. B.** (with Koprinski, S. C.) A direct method of finding the inverse Laplace transform of the operator functions $e^{-\sqrt{\alpha(p+\beta)}/p^2}$, $e^{-\sqrt{\alpha(p+\beta)}/p^3}$, etc. (Bulgarian. Russian and English summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* **8** (1972), no. 1, 159-178 (1973). (From the authors' summary) **56** #6290 44A10
- Abae, T. G.** The problem of compiling an optimal schedule for the work of a group of automata stations with digital programmed control. (Russian) *Automated control systems* (Proc. Sem. Automat. Control Systems and Data Process., Kiev, 1974) (Russian), pp. 62-69. Akad. Nauk Ukrain. SSR Inst. Kibernet., Kiev, 1975. **56** #14636 90B35
- Abaffy, József** Some unconditional quadratic convergence methods for the minimization of functions. (Hungarian. English summary) *Alkalmaz. Mat. Lapok* **1** (1975), no. 1-2, 91-100. (V. A. Ivanov) **54** #1599 65K05 (90C20)
- On a class of dual matrix methods. (Hungarian. English summary) *Alkalmaz. Mat. Lapok* **2** (1976), no. 3-4, 351-358 (1977). (Author's summary) **57** #18087 65K05 (65F30)
- (with Galántai, Aurél) Error estimations for the conjugate direction methods. (Hungarian. English summary) *Alkalmaz. Mat. Lapok* **2** (1976), no. 3-4, 369-375 (1977). (Authors' summary) **57** #18088 65K05
- A three-parameter class of quasi-Newton methods. (Hungarian. English summary) *Alkalmaz. Mat. Lapok* **2** (1976), no. 1-2, 135-143. (Author's summary) **55** #11612 65K05 (65H10)
- Unconstrained function minimization methods with quadratic completion. *Tanulmányok—MTA Számítástech. Automat. Kutató Int. Budapest No. 47* (1976), 62 pp. (V. V. Ivanov) **57** #7999 65K05 (90C20)
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- Optimal immunisation policies for epidemics. *Advances in Appl. Probability* **6** (1974), 494-511. (R. Fischler) **50** #3404 60K99 (92A15)
- A note on supercritical carrier-borne epidemics. *Biometrika* **61** (1974), 271-275. (Vincenzo Capasso) **54** #6991 92A15
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